UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

05/28/2004

Janet Sleath Speckman Law Group 1501 Western Avenue, Suite 100 Seattle, WA 98101 EXAMINER

ODLAND, KATHRYN P

ART UNIT

PAPER NUMBER

3743

DATE MAILED: 05/28/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826 487	04/04/2001	Edward I Wulfman	89000 3007	3007

TITLE OF INVENTION: INTRALUMENAL MATERIAL REMOVAL SYSTEMS AND METHODS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	08/30/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
 - □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed n or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility t ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), t: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

indicated unless corrected maintenance fee notificatio		in Block 1, by (a) specifying a new co	orrespondence addres	ss; and/or (b) indicating a sepa	rate "FEE ADDRESS" for
CURRENT CORRESPONDEN	CE ADDRESS (Note: Legibly mark-up	p with any corrections or	use Block 1)	Fee(s) Transmittal. I papers. Each addition	of mailing can only be used for this certificate cannot be used in all paper, such as an assignment of mailing or transmission.	for any other accompanying
Janet Sleath Speckman Law Gr 1501 Western Ave Seattle, WA 98101	roup enue, Suite 100			Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.		
Scattle, WA 7010						(Depositor's name)
						(Signature)
						(Date)
		,			[]	
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,487 TITLE OF INVENTION: I	04/04/2001 NTRALUMENAL MATERI	AL REMOVAL S	Edward I. Wulfma YSTEMS AND MET		89000.3007	3007
APPLN. TYPE	SMALL ENTITY	ISSUE FI	EE PU	BLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665		\$300	\$965	08/30/2004
EXAM	MINER	ART UN	іт сі	ASS-SUBCLASS	٦	
ODLAND, I	KATHRYN P	3743	t	606-167000		
CFR 1.363). Change of correspond Address form PTO/SB/1 "Fee Address" indicat PTO/SB/47; Rev 03-02 Number is required. ASSIGNEE NAME ANI PLEASE NOTE: Unless been previously submitte (A) NAME OF ASSIGN	ion (or "Fee Address" Indica or more recent) attached. Us D RESIDENCE DATA TO B is an assignee is identified be ed to the USPTO or is being IEE	correspondence tion form e of a Customer E PRINTED ON T low, no assignee desubmitted under sep (B	names of up to agents OR, altern firm (having as a agent) and the na attorneys or agent will be printed. THE PATENT (print of ata will appear on the parate cover. Complete) RESIDENCE: (CIT	patent. Inclusion of ion of this form is NO Y and STATE OR Co	attorneys or 1e of a single d attorney or 2stered patent led, no name 3assignee data is only appropriator a substitute for filing an assignee assignee data is only appropriator a substitute for filing an assignee data is only appropriator a substitute for filing an assignee data is only appropriator a substitute for filing an assignee data is only appropriator a substitute for filing an assignee data is only appropriator.	ignment.
☐ Issue Fee			A check in the am	ount of the fee(s) is e	nclosed.	
☐ Publication Fee ☐ Payment by			☐ Payment by credit	card. Form PTO-203	8 is attached.	
☐ Advance Order - # of Copies ☐ The Director is h Deposit Account Nu			ereby authorized by mber	charge the required fee(s), or enclose an extra c	credit any overpayment, to copy of this form).	
Director for Patents is reque	ested to apply the Issue Fee a	nd Publication Fee	(if any) or to re-apply	any previously paid	issue fee to the application ide	ntified above.
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from any other than the applicant; a registered attorney or agent; or the assignee or other part interest as shown by the records of the United States Patent and Trademark Office.			ee or other party in k Office.			
completed application for case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT SEND TO: Commissioner	ation is required by 37 CFR by the public which is to fy is governed by 35 U.S.C. Itses to complete, including gran to the USPTO. Time with the amount of time you this burden, should be sent Office, U.S. Department SEND FEES OR COMPLE for Patents, Alexandria, Vineduction Act of 1995, no person of the public property of the patents of	all vary depending lil vary depending require to complet to the Chief Inform of Commerce, A TED FORMS TO ginia 22313-1450.	, and submitting the upon the individual te this form and/or nation Officer, U.S. lexandria, Virginia THIS ADDRESS.			
Under the Paperwork Reduction Act of 1995, no persons are required to respond to collection of information unless it displays a valid OMB control number.						



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/826,487	04/04/2001	Edward I. Wulfman 89000.30	89000.3007 3007		
75	90 05/28/2004		EXAM	INER	
Janet Sleath			ODLAND, KATHRYN P		
Speckman Law Gro 1501 Western Aven			ART UNIT	PAPER NUMBER	
Seattle, WA 98101			3743		

DATE MAILED: 05/28/2004

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 428 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 428 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

W

	Application No.	Applicant(s)					
	09/826,487	WULFMAN ET AL.					
Notice of Allowability	Examin r	Art Unit					
	Kathryn Odland	3743					
Th MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS					
1. A This communication is responsive to <u>02 March 2004</u> .							
2. The allowed claim(s) is/are 20,21,23,24,26-32,40-54 and 5	<u>56</u> .						
3. \boxtimes The drawings filed on <u>08 March 2004</u> are accepted by the	Examiner.						
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have	e been received. e been received in Application No						
* Certified copies not received:	International Bureau (PCT Rule 17.2(a)). * Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give							
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.							
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached							
1) hereto or 2) to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawing he header according to 37 CFR 1.121(ngs in the front (not the back) of d).					
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachm nt(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	Patent Application (PTO-152)					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date	Paper No./Mail Dai 08), 7. ⊠ Examiner's Amendr	te ment/Comment					
4. Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner's Stateme	ent of Reasons for Allowance					
of Biological Material	9. Other						
	He	Rennett					
	Superviso	y Patent Examina:					

Application/Control Number: 09/826,487

Art Unit: 3743

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ann Speckman on May 17, 2004.

The application has been amended as follows:

The marked up version showing the changes is shown below:

- 20. (Currently Amended): An intralumenal material removal device comprising a rotatable cutter assembly in communication with a drive shaft for receiving rotational torque from the drive shaft, the cutter assembly comprising an adjustable diameter cutter having a plurality of [radially pivotable] rotatable, fan-shaped cutting blades, wherein each of the cutting blades has a beveled edge for cutting, and wherein each of the cutting blades is individually rotatable around its own axis of rotation between a smaller diameter tangential orientation and a larger diameter radial orientation, and wherein each axis is circumferentially spaced around a central longitudinal axis.
- 28. (Currently Amended): An intralumenal material removal device comprising: a rotatable cutter assembly operably coupled to a distal end of a rotatable drive shaft, the cutter assembly comprising an expandable diameter cutter having a plurality of blades,

Application/Control Number: 09/826,487 Page 3

Art Unit: 3743

<u>each of the blades mounted for pivoting</u> [pivotable] between a tangential orientation and a radial orientation without causing the blades to flex.

Please cancel claim 55.

56. The device of claim [55] <u>20</u>, wherein the blades are [pivotable] <u>rotatable</u> between the tangential and radial orientations by changing direction of rotation of the cutter assembly.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kathryn Odland whose telephone number is (703) 306-3454. The examiner can normally be reached on M-F (7:30-5:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry A Bennett can be reached on (703) 308-0101. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Page 4

Application/Control Number: 09/826,487

Art Unit: 3743

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KO

Henry Bennett
Supervisory Patent Examiner